

FROM McANDREWS, HELD, & MALLOY

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U.S. Application No. 10/646,318, filed August 22, 2003
Attorney Docket No. 14366US02
Amendment dated December 11, 2007
In Response to Office Action mailed July 11, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

1-55. (Cancelled)

56. (Currently Amended) Apparatus comprising:

a terminal;

a wireless communications module comprising a transceiver arranged to transmit and receive radio frequency signals;

at least one antenna coupled with the transceiver and embedded within the communications module; and

a connector arranged to removably couple the communications module with the terminal and to transmit signals, wherein the terminal is coupled with the connector and is arranged to standardize the logic levels and the a format of the signals transmitted over the connector such that the terminal may be engaged by the communications module through the connector without adjustment of the communications module.

57. (Previously Presented) The apparatus of claim 56 wherein the at least one antenna comprises a flat antenna.

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58. (Previously Presented) The apparatus of claim 56 wherein the at least one antenna comprises a pair of flat antennas.

59. (Previously Presented) The apparatus of claim 56 wherein the at least one antenna comprises two antennas having different structure relative to each other.

60. (Currently Amended) In a communication system including a portable terminal, apparatus the terminal comprising:

a wireless communications module comprising a transceiver arranged to transmit and receive radio frequency signals, the module being of such a size and weight as to be maneuverable with only one hand of a user;

at least one antenna coupled with the transceiver and embedded within the communications module; and

a connector arranged to releasably engage the communications module from the terminal and to transmit signals, wherein the terminal is coupled with the connector and is arranged to standardize the logic levels and the a format of the signals transmitted over the connector such that the terminal may be engaged by the communications module through the connector without adjustment of the communications module or the terminal.

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61. (Currently Amended) The ~~system~~ terminal of claim 60 wherein the at least one antenna comprises a flat antenna.

62. (Currently Amended) The ~~system~~ terminal of claim 60 wherein the at least one antenna comprises a pair of flat antennas.

63. (Currently Amended) The ~~system~~ terminal of claim 60 wherein the at least one antenna comprises two antennas having different structure relative to each other.

64. (Currently Amended) The ~~system~~ terminal of claim 60 wherein battery power is applied to the communications module from the terminal through a switch and wherein the terminal is responsive to the non-operation of the communications module ~~for~~ by opening the switch and ~~by thereby~~ removing power from the communications module.

65. (Previously Presented) Apparatus for use with a portable comprising:
a wireless communications module comprising a transceiver arranged to transmit and receive radio frequency signals, the module having such a size and weight as to be maneuverable with only one hand of the user;

at least one antenna coupled with the communications module and embedded within the

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communications module;

a connector arranged to releasably engage the communications module with the terminal and to transmit signals; and

a housing enclosing the terminal and defining an opening arranged to receive the communications module and to guide the module into contact with the connector, wherein the terminal is arranged to standardize the logic levels and the a format of the signals transmitted over the connector such that terminal may be engaged by the communications module through the connector without adjustment of the communications module or the terminal.

66. (Previously Presented) The apparatus of claim 65 wherein the at least one antenna comprises a flat antenna.

67. (Previously Presented) The apparatus of claim 65 wherein the at least one flat antenna comprises a pair of flat antennas.

68. (Previously Presented) The apparatus of claim 65 wherein the at least one antenna comprises two antennas having different structure relative to each other.

69. (Currently Amended) Apparatus for use with a portable terminal including a

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connector and having a size and weight carryable by a user, the apparatus comprising a wireless communications module having a generally flat rectangular shape and having such a size and weight as to be maneuverable by only one hand of a user, the module being releasably coupled to the terminal through the connector and comprising a transceiver arranged to transmit and receive radio frequency signals and comprising an antenna embedded in the module and coupled to the transceiver, the terminal being engaged by the communications module through the connector.

70. (Previously Presented) The apparatus of claim 69 wherein the at least one antenna comprises a flat antenna.

71. (Previously Presented) The apparatus of claim 69 wherein the at least one antenna comprises a pair of flat antennas.

72. (Previously Presented) The apparatus of claim 69 wherein the at least one antenna comprises two antennas having different structure relative to each other.